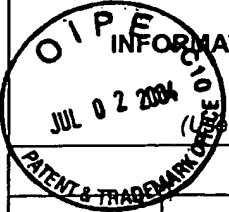


[illegible][illegible]

JEA	David K. Gardner, et al., "Fetal Development After Transfer is Increased by Replacing Protein with the Glycosaminoglycan Hyaluronan for Mouse Embryo Culture and Transfer," Human Reproduction, Vol. 14, No. 10, pp. 2575-2580.
↓	J. Keenan, et al., "Recombinant Human Albumin in Cell Culture: Evaluation of Growth-Promoting Potential for NRK and SCC-9 Cells In Vitro," Cytotechnology, Vol. 24, 1997, pp. 243-252.
JEA	Japanese Patent Office Search Report dated December 17, 2004.

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Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 033948-0126		SERIAL NO. 10/764,821		
 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT GARDNER, David K. and LANE, Michelle T.				
				FILING DATE 01/26/2004		GROUP ART UNIT 1635		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE	
JEA		4,007,087	02/08/1977	Ericsson				
		4,327,177	04/27/1982	Shrimpton				
		4,804,537	02/14/1989	Bergman et al.				
		5,102,783	04/07/1992	Alkemade et al.				
		5,432,160	07/11/1995	Hara et al.				
		5,496,720	03/05/1996	Susko-Parrish et al.				
		5,612,196	03/18/1997	Becquart et al.				
		5,096,822	03/07/1992	Rosendrants, Jr. et al.				
		6,010,448	01/04/2000	Thompson				
		6,043,092	03/28/2000	Block				
		6,048,728	04/11/2000	Inlow et al.				
		6,130,086	10/10/2000	Nakazawa et al.				
		6,153,582	11/28/2000	Skelnik				
JEA		6,140,121	10/31/2000	Ellington et al.				
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
JEA		WO 86/07377	18 Dec 1986	PCT				
		WO 99/67364	29 Dec 1999	PCT				
		WO 00/32140	8 Jun 2000	PCT				
		WO 92/21234	10 Dec 1992	PCT				
		EP 0 220 379	3 Jul 1986	Europe				
		EP 0 248 637	2 Jun 1987	Europe				
		EP 0 521 674	29 Jun 1992	Europe				
		EP 0 872 80	21 Oct 1998	Europe				
		EP 0 947 581	6 Aug 1997	Europe				
JEA		2,199,663	11 Sep 1998	Canada				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
JEA		Copy of Denmark Search Report No. SE 2003 04710.						
JEA		Kane, M. T. et al., "Protein-Free Culture Medium Containing Polyvinylalcohol, Vitamins, and Amino Acids Supports Development of Eight-Cell Hamster Embryos to Hatching Blastocysts," <i>The Journal of Experimental Zoology</i> , Vol. 247, pp. 183-187, 1988; Alan R. Liss, Inc.						

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 033948-0126		SERIAL NO. 10/764,821	
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				FILING DATE 01/26/2004		GROUP ART UNIT 1635	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
JEA		McKiernan, S. H. <i>et al.</i> , "Different Lots of Bovine Serum Albumin Inhibit or Stimulate in Vitro Development of Hamster Embryos," <i>In Vitro Cell Dev. Biol.</i> , Vol. 28A, pp. 154-156, March 1992; Tissue Culture Association.					
		Batt, P. A., <i>et al.</i> , "Oxygen Concentration and Protein Source Affect the Development of Preimplantation Goat Embryos <i>In Vitro</i> ," <i>Reprod. Fertil. Dev.</i> , Vol. 3, pp. 601-607, 1991.					
		Kane, M. T., "Minimal Nutrient Requirements for Culture of One-Cell Rabbit Embryos," <i>Biology of Reproduction</i> , Vol. 37, pp. 775-778, 1987.					
		Gray, C. W. <i>et al.</i> , "Purification of an Embryotrophic Factor From Commercial Bovine Serum Albumin and Its Identification as Citrate," <i>J. Reprod. Fert.</i> , Vol. 94, pp. 471-480, 1992; Journals of Reproduction & Fertility, Ltd., Great Britain.					
		Farrar, N.C. <i>et al.</i> , "Effects of Serum or Fatty Acid Supplementation of Synthetic Oviduct Fluid Medium on Development of Bovine Embryos <i>In Vitro</i> ," Abstract from a presentation at a meeting of the British Society of Animal Science, September 1999.					
		Hooper, K. <i>et al.</i> , "Toward Defined Physiological Embryo Culture Media: Replacement of BSA with Recombinant Albumin," <i>Biology of Reproduction</i> , Vol. 62, (Suppl. 1), p. 249 (Abstract), from 33 rd Annual Meeting of Society for the Study of Reproduction, July 15-18, 2000, University of Wisconsin.					
		Gardner, D. <i>et al.</i> , "Recombinant Human Serum Albumin and Hyaluronan Can Replace Blood-Derived Albumin in Embryo Culture Media," <i>American Society for Reproductive Medicine</i> , Vol. 74, No. 3S, p. S31 (Abstract), from 56 th Annual Meeting of the American Society for Reproductive Medicine, October 21-26, 2000, San Diego, California.					
		Gardner, D. <i>et al.</i> , "Bovine Oocyte Maturation in a Completely Defined Medium: Replacing Serum with Recombinant Albumin and Hyaluronan," <i>Theriogenology, An International Journal of Animal Reproduction</i> , Vol. 55, No. 1, p. 471 (Abstract), from Proceedings of the Annual Conference of the International Embryo Transfer Society, January 13-16, 2001, Omaha, Nebraska.					
		Gardner, D. K. <i>et al.</i> , "Culture of viable human blastocysts in defined sequential serum-free media," <i>Human Repro.</i> , Vol. 13, Suppl. 3, June 1998, pp. 148-159; European Society for Human Reproduction and Embryology.					
		Keenan, J. <i>et al.</i> , "Recombinant human albumin in cell culture: Evaluation of growth-promoting potential for NRK and SCC-9 cells in vitro," <i>Cytotechnology</i> , Vol. 24, No. 3, 1997, pp. 243-252; published by Kluwer Academic Publishers.					
		Kjems, E. <i>et al.</i> , "Isolation of hyaluronic acid from cultures of streptococci in a chemically defined medium," <i>Acta Pat. Microbiol. Scand., Sect. B</i> , Vol. 84:162-164, 1976.					
		Gene Characterization Kits, <i>Stratagene Catalog</i> , 1988, p. 39.					
		Miyano, T. <i>et al.</i> , "Effects of Hyaluronic Acid on the Development of 1- and 2-Cell Porcine Embryos to the Blastocyst Stage in Vitro," <i>Theriogenology</i> , Vol. 41, pp. 1299-1305, 1994; Butterworth-Heinemann.					
		Quinn, P. <i>et al.</i> , "Improved Pregnancy Rate in Human In Vitro Fertilization with the Use of a Medium Based on the Composition of Human Tubal Fluid," <i>Fertility and Sterility</i> , Vol. 44, No. 4, pp. 493-498, 1985; The American Fertility Society..					
		Roth, E. <i>et al.</i> , "Influence of Two Glutamine-Containing Dipeptides on Growth of Mammalian Cells," <i>In Vitro Cellular & Devel. Biol.</i> , Vol. 24, No. 7, pp. 696-698, 1988; Tissue Culture Association, Inc.					
JEA		Jones, G. M. <i>et al.</i> , "Evolution of a Culture Protocol for Successful Blastocyst Development and Pregnancy," <i>Human Repro.</i> , Vol. 13, No. 1, pp. 169-177, 1998; European Society for Human Reproduction and Embryology.					
		Gardner, D. K. <i>et al.</i> , "Concentrations of Nutrients in Mouse Oviduct Fluid and Their Effects on Embryo Development and Metabolism <i>In Vitro</i> ," <i>J Repro & Fert.</i> , Vol. 88, pp. 361-368, 1990; Journals of Reproduction & Fertility Ltd., printed in Great Britain.					

JEA		Hammitt, D. G. <i>et al.</i> , "Improved Methods for Preparation of Culture Media for <i>in-vitro</i> Fertilization and Gamete Intra-Fallopian Transfer," <i>Human Repro.</i> , Vol. 5, No. 4, pp. 457-463, 1990; Oxford University Press.
		Leese, H. J., "The Environment of the Preimplantation Embryo," from <i>Establishing a Successful Human Pregnancy</i> , Serono Symposia Publications from Raven Press, Vol. 66, pp. 143-154, 1990; R. G. Edwards (ed.), Raven Press, New York.
		Yovich, J. <i>et al.</i> , <i>The Management of Infertility: A Manual of Gamete Handling Procedures</i> , pp. 106-195, 1990; John Yovich and Geddis Grudzinskas, Oxford.
		Lane, M. <i>et al.</i> , "Effect of Incubation Volume and Embryo Density on the Development and Viability of Mouse Embryos <i>In Vitro</i> ," <i>Human Repro.</i> , Vol. 7, No. 4, pp. 558-562, 1992; Oxford University Press.
		Gardner, D. K. <i>et al.</i> , "Mouse Embryo Cleavage, Metabolism and Viability: Role of Medium Composition," <i>Human Repro.</i> , Vol. 8, No. 2, pp. 288-295, 1993; Oxford University Press.
		Gardner, D. K. <i>et al.</i> , "Embryo Culture Systems," <i>Handbook of In Vitro Fertilization</i> , Trounson & Gardner (eds.), pp. 85-114, 1993; CRC Press.
		Gardner, D. K. <i>et al.</i> , "Amino Acids and Ammonium Regulate Mouse Embryo Development in Culture," <i>Biol. Repro.</i> , Vol. 48, pp. 377-385, 1993.
		Lane, M. <i>et al.</i> , "Increase in Postimplantation Development of Cultured Mouse Embryos by Amino Acids and Induction of Fetal Retardation and Exencephaly by Ammonium Ions," <i>J. Repro. & Fertility</i> , Vol. 102, pp. 305-312, 1994; Journals of Reproduction & Fertility Ltd.
		Gardner, D. K. <i>et al.</i> , "Enhanced Rates of Cleavage and Development for Sheep Zygotes Cultured to the Blastocyst Stage <i>In Vitro</i> in the Absence of Serum and Somatic Cells: Amino Acids, Vitamins, and Culturing Embryos in Groups Stimulate Development," <i>Biol Repro.</i> , Vol. 50, pp. 390-400, 1994.
		Gardner, D. K., "Mammalian Embryo Culture in the Absence of Serum or Somatic Cell Support," <i>Cell Biol.Int'l</i> , Vol. 18, No. 12, pp. 1163-1179, 1994; Academic Press Ltd.
		Barnes <i>et al.</i> , "Blastocyst Development and Birth After In-Vitro Maturation of Human Primary Oocytes, Intracytoplasmic Sperm Injection and Assisted Hatching," <i>Human Repro.</i> , pp. 3243-3247, 1995; published by Oxford Univ. Press, Oxford.
		Gardner, D. K. <i>et al.</i> , "Alleviation of the '2-Cell Block' and Development to the Blastocyst of CF1 Mouse Embryos: Role of Amino Acids, EDTA and Physical Parameters," <i>Human Repro.</i> , Vol. 11, No. 12, pp. 2703-2712, 1996; European Society for Human Reproduction and Embryology.
		O'Brien, J. K. <i>et al.</i> , "Developmental Capacity, Energy Metabolism and Ultrastructure of Mature Oocytes from Prepubertal and Adult Sheep," <i>Repro. Fertil. Dev.</i> , Vol. 8, pp. 1029-1037, 1996.
		Schramm, R. D. <i>et al.</i> , "Development of in-vitro-fertilized Primate Embryos into Blastocysts in a Chemically Defined, Protein-Free Culture Medium," <i>Human Repro.</i> , Vol. 11, No. 8, pp. 1690-1697, 1996; published by European Society for Human Reproduction and Embryology.
		Gardner, D. <i>et al.</i> , "Complex Physiologically Based Serum-Free Culture Media Increase Mammalian Embryo Development", from 10 th World Congress on In Vitro Fertilization and Assisted Reproduction, Vancouver, Cana, May 24-28, 1997, pp. 187-191; Monduzzi Editore S.p.A. - Bologna (Italy).
		Gardner, D. K. <i>et al.</i> , "Culture and Selection of Viable Blastocysts: A Feasible Proposition for Human IVF?," <i>Human Repro Update</i> , Vol. 3, No. 4, pp. 367-382, 1997; European Society for Human Reproduction and Embryology.
		Lane, M. <i>et al.</i> , "Differential Regulation of Mouse Embryo Development and Viability by Amino Acids," <i>J. Repro. & Fertility</i> , Vol. 109, pp. 153-164, 1997; Journals of Reproduction & Fertility Ltd.
		Lane, M. <i>et al.</i> , "Animal Experimentation: Nonessential Amino Acids and Glutamine Decrease the Time of the First Three Cleavage Divisions and Increase Compaction of Mouse Zygotes <i>In Vitro</i> ," <i>J. Assisted Repro. and Genetics</i> , Vol. 14, No. 7, pp. 398-403, 1997; Plenum Publishing Corporation.
		Abeyderra, L. R. <i>et al.</i> , "Fertilization and Subsequent Development <i>In Vitro</i> of Pig Oocytes Inseminated in a Modified Tris-Buffered Medium with Frozen-Thawed Ejaculated Spermatozoa," <i>Biol. Repro.</i> , Vol. 57, pp. 729-734, 1997.
JEA		Keskintepe, L. <i>et al.</i> , "Caprine Blastocyst Formation Following Intracytoplasmic Sperm Injection and Defined Culture," <i>Zygote</i> , Vol. 5 (August), pp. 261-265, 1997; Cambridge University Press.

JEA		Gardner, D. K. <i>et al.</i> , "Culture and Transfer of Human Blastocysts Increases Implantation Rates and Reduces the Need for Multiple Embryo Transfers," <i>Fertility and Sterility</i> , Vol. 69, pp. 84-88, 1998; Elsevier Science, New York.
		Gardner, D. K., "Development of Serum-Free Media for the Culture and Transfer of Human Blastocysts," <i>Human Repro.</i> Vol. 13, Suppl. 4, pp. 218-225, 1998; European Society for Human Reproduction and Embryology.
		Gardner, D. K. <i>et al.</i> , "Elimination of High-Order Multiple Gestations by Blastocyst Culture and Transfer," <i>Female Infertility Therapy: Current Practice</i> , Z. Shoham <i>et al.</i> , eds., pp. 267-274, 1998; Martin Dunnitz, London.
		Gardner, D. K., "Improving Embryo Culture and Enhancing Pregnancy Rate," <i>Female Infertility Therapy: Current Practice</i> , Z. Shoham <i>et al.</i> , eds., pp. 283-299, 1998; Martin Dunnitz, London.
		Gardner D. <i>et al.</i> , "Controversies in Assisted Reproduction and Genetics: Human Embryo Viability: What Determines Developmental Potential, and Can It Be Assessed?," <i>J. Assisted Repro. & Genetics</i> , Vol. 15, No. 8, pp. 455-458, 1998; Plenum Publishing Corporation.
		Gardner, D. K., "Changes in Requirements and Utilization of Nutrients During Mammalian Preimplantation Embryo Development and Their Significance in Embryo Culture," <i>Theriogenology</i> , Vol. 49, pp. 83-102, 1998; Elsevier Science, Inc.
		Lane, M. <i>et al.</i> , "Amino Acids and Vitamins Prevent Culture-Induced Metabolic Perturbations and Associated Loss of Viability of Mouse Blastocysts," <i>Human Repro.</i> , Vol. 13, No. 4, pp. 991-997, 1998; European Society for Human Reproduction and Embryology.
		Gardner, D. K., "Embryo Development and Culture Techniques," <i>Animal Breeding. Technology for the 21st Century</i> , A. J. Clark, ed., pp. 13-46, 1998; Harwood Academic Publishers.
		Staessen, C. <i>et al.</i> , "Controlled comparison of commercial media for human in-vitro fertilization: Ménézo B2 medium versus Medi-Cult universal and BM1 medium," <i>Human Repro.</i> , Vol. 13, No. 9, pp. 2548-2554, 1998; European Society for Human Reproduction and Embryology.
JEA		Cited pages from the Gibco catalogue. No other information available.

/Jon Eric Angell/

07/23/2006